	Application No.	Applicant(s)
Notice of Allowability	10/774,522	YONEDA, KENJI
	Examiner	Art Unit
	Asok K. Sarkar	2891
	ASUK N. Saikai	[2091
The MAILING DATE of this communication appears on the cover sheet with the correspondence address— All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>ree filed 4/13/2006</u> .		
2. The allowed claim(s) is/are <u>1-19</u> .		
3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the:		
1. Certified copies of the priority documents have been received.		
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
		•
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5 🗆 Notice of I	nformal Patent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		Summary (PTO-413),
	Paper No	./Mail Date
 Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 3/28.06 	8), 7. <u>⊠</u> Examiner's	s Amendment/Comment
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examiner's	s Statement of Reasons for Allowance
oi biological Material	9. 🗌 Other	_·
		`

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on April 13, 2006 has been entered.

Response to Amendment

2. Applicant's explanation of the instant invention in pointing the difference with the cited prior art was found to be persuasive.

Election/Restrictions

3. Claims 1 – 3 and 5 – 19 are directed to an allowable process claim. Pursuant to the procedures set forth in MPEP § 821.04(b), claim 4, directed to the process of making, previously withdrawn from consideration as a result of a restriction requirement, is hereby rejoined and fully examined for patentability under 37 CFR 1.104. Claims 20 – 22 are directed to the invention(s) of Group II claims do not require all the limitations of an allowable process claim, and have NOT been rejoined.

Because a claimed invention previously withdrawn from consideration under 37 CFR 1.142 has been rejoined, the restriction requirement between species of groups I and II as set forth in the Office action mailed on June 23, 2005 is hereby withdrawn. In view of the withdrawal of the restriction requirement as to the rejoined inventions,

Application/Control Number: 10/774,522 Page 3

Art Unit: 2891

applicant(s) are advised that if any claims including, all the limitations of an allowable product claim or rejoined process claim are presented in a continuation or divisional application, such claims may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application. Once the restriction requirement is withdrawn, the provisions of 35 U.S.C. 121 are no longer applicable. See *In re Ziègler*, 443 F.2d 1211, 1215, 170 USPQ 129, 131-32 (CCPA 1971). See also MPEP § 804.01.

EXAMINER'S AMENDMENT

- 4. In view of allowable subject matter, the Applicant's representative was contacted for canceling the nonelected claims.
- 5. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Michael E. Fogarty on April 25, 2006.

The application has been amended as follows:

Claims 20 – 23 have been cancelled.

Allowable Subject Matter

- 6. Claims 1-4 and 5-19 are allowed.
- 7. The following is an examiner's statement of reasons for allowance:

Art Unit: 2891

Claims 1 – 4 and 5 – 19 recite, inter alia, a method for fabricating a semiconductor device, comprising the steps of forming an oxide film having a thickness of not more than 3 nm, using a solution including an oxidizer, on a surface of a silicon layer provided at least in part of a semiconductor substrate and making the oxide film into an oxynitride film by exposing the oxide film to a plasma having an electron energy of 5 ev or less and containing nitrogen, wherein the step of exposing the oxide film to a plasma containing nitrogen is performed just after the step of forming the oxide film using the solution including the oxidizer. The inventive step is forming an oxide film having a thickness of not more than 3 nm using a solution oxidation process. The art of record does not disclose or anticipate the above limitation in combination with other claim elements nor would it be obvious to modify the art of record so as to form a device including the above limitation.

Conclusion

- 8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Matsuyama, US 2005/0153570 teaches substrate processing method in which the formed oxide is converted to nitride.
- 9. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Page 5

Art Unit: 2891

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Asok K. Sarkar whose telephone number is 571 272 1970. The examiner can normally be reached on Monday - Friday (8 AM- 5 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William B. Baumeister can be reached on 571 272 1722. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jsoh Univer Sarkar Asok K. Sarkar April 25, 2006

Primary Examiner